AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): An integrated filtration and detection device for collecting and detecting the growth of microorganisms in a specimen, said device comprising:

- a) a container defining a chamber therein and having an inlet and an outlet in fluid communication with said chamber;
- b) a filter for filtering fluids, said filter mounted in said chamber between said inlet and said outlet; and
- c) a sensor mounted in said chamber, said sensor operative to exhibit a change in a measurable property thereof upon exposure to changes in said chamber due to microbial growth;

wherein said sensor and said filter are disposed at opposed ends of said chamber.

Claim 2 (original): The device of Claim 1 wherein said filter is a microporous filter.

Claim 3 (original): The device of Claim 1 wherein said filter is a radial flow filter.

Claim 4 (original): The device of Claim 1 wherein said sensor is responsive to at least one of a change in pH and the presence of CO₂.

Claim 5 (original): The device of Claim 1 wherein said sensor is operative to change color in response to at least one of a change in pH and the presence of CO_2 in said chamber.

Claim 6 (original): The device of Claim 1 wherein said sensor is secured to an interior surface of said container.

Claim 7 (original): The device of Claim 6 wherein said sensor is bonded to said interior surface of said container.

Claim 8 (original): The device of Claim 1 wherein said container has a transparent section and changes in said measurable property of said sensor are detectable through said

transparent section.

Claim 9 (original): The device of Claim 1 wherein said container is formed of a plastic.

Claim 10 (canceled)

Claim 11 (original): The device of Claim 1 wherein said container includes a container body

and a removable end cap.

Claim 12 (original): The device of Claim 11 including an O-ring seal between said container

body and said end cap.

Claim 13 (original): The device of Claim 11 wherein said inlet and said outlet are formed in

said end cap.

Claim 14 (currently amended): An integrated filtration and detection device for collecting and

detecting the growth of microorganisms in a specimen, said device comprising:

a) a container defining a chamber therein and including:

an inlet and an outlet in fluid communication with said chamber; and

a transparent section;

b) a microporous filter for filtering fluids, said filter mounted in said chamber

between said inlet and said outlet; and

c) a sensor mounted in said chamber, said sensor operative to change color in

response to at least one of a change in pH and the presence of CO₂ in said chamber due to

microbial growth, wherein changes in the color of said sensor are detectable through said

transparent section;

wherein said sensor and said filter are disposed at opposed ends of said chamber.

Claim 15 (original): The device of Claim 14 wherein said filter is a radial flow filter.

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Claim 16 (original): The device of Claim 14 wherein said sensor is secured to an interior surface of said container.

Claim 17 (original): The device of Claim 14 wherein said chamber has a volume of between about 10 milliliters and 1 liter.

Claim 18 (original): The device of Claim 14 wherein said container is formed of a plastic.

Claim 19 (canceled)

Claim 20 (original): The device of Claim 14 wherein said container includes a container body and a removable end cap, said inlet and said outlet are formed in said end cap, said device including an O-ring seal between said container body and said end cap.

Claim 21 (currently amended): A system for detecting the growth of specimen in a specimen, said system comprising:

- a) an integrated filtration and detection device comprising:
- a container defining a chamber therein and having an inlet and an outlet in fluid communication with said chamber;
- a filter for filtering fluids, said filter mounted in said chamber between said inlet and said outlet; and
- a sensor mounted in said chamber, said sensor operative to exhibit a change in a measurable property thereof upon exposure to changes in said chamber due to microbial growth;

wherein said sensor and said filter are disposed at opposed ends of said chamber; and

- b) a measuring apparatus operable to detect the measurable property of said sensor.
- Claim 22 (currently amended): A method for collecting and detecting the growth of microorganisms in a specimen, said method comprising the steps of:
 - a) providing an integrated filtration and detection device including:

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a container defining a chamber therein and having an inlet and an outlet in

fluid communication with the chamber;

a filter for filtering fluids, said filter mounted in the chamber between said

inlet and the outlet; and

a sensor mounted in the chamber, the sensor operative to exhibit a change in a

measurable property thereof upon exposure to changes in the chamber due to

microbial growth;

wherein said sensor and said filter are disposed at opposed ends of said

chamber;

b) passing the specimen into the chamber through the inlet, through the filter and

out of the chamber through the outlet to collect the microorganisms on the filter; and

thereafter

c) detecting the measurable property of the sensor.

Claim 23 (original): The method of Claim 22 including the step of introducing a culturing

medium into the chamber following said step of passing the specimen.

Claim 24 (original): The method of Claim 23 further including the step of passing a wash

fluid into the chamber through the inlet, through the filter and out of the chamber through the

outlet between said steps of passing the specimen and introducing a culturing medium into

the chamber.

Claim 25 (original): The method of Claim 22 including the step of placing the device in a slot

of a measuring apparatus, the measuring apparatus being operable to detect the measurable

property of the sensor.

Claim 26 (original): The method of Claim 25 including the step of automatically and

electronically evaluating the sensor using the measuring apparatus.

Claim 27 (original): The method of Claim 22 including the step of incubating the

microorganisms in the chamber.

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Claim 28 (original): The method of Claim 22 wherein said sensor and said filter are retained in said chamber during and between said steps of passing the specimen and detecting the measurable property of the sensor.